reading data on the storage medium in response to a command, the data comprising prefetch data and demand data;

storing the demand data in a region of memory; and

issuing an interrupt after the demand data has been stored in memory.

5. (Amended) The method of claim 1, wherein the demand data is read from a first location on the storage medium and the prefetch data is read from a second location on the storage medium, the first location preceding the second location in a direction of movement of the storage medium during reading.

6. (Amended) The method of claim 5, further comprising reading additional prefetch data from a third location on the storage medium, the third location preceding the first and second locations in a direction of movement of the storage medium during reading.

9. (Amended) The method of claim 7, further comprising reading data from a third location on the storage medium, the third location following the second location in the direction of movement of the storage medium during reading.

13. (Amended) A machine-readable medium that stores instructions to read data from a storage medium, the instructions causing a machine to:

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read data on the storage medium in response to a command, the data comprising prefetch data and demand data;

store the demand data in a region of memory; and

issue an interrupt after the demand data has been stored in memory.

14. (Amended) The machine-readable medium of claim 13, further comprising instructions that cause the machine to consult a database to determine when to issue the interrupt.

15. (Amended) The machine-readable medium of claim 14, wherein the database comprises instructions for storing the data and for issuing the interrupt.

16. (Amended) The machine-readable medium of claim 14, wherein the database comprises a scatter/gather list.

17. (Amended) The machine-readable medium of claim 13, wherein the demand data is read from a first location on the storage medium and the prefetch data is read from a second location on the storage medium, the first location preceding the second location in a direction of movement of the storage medium during reading.

18. (Amended) The machine-readable medium of claim 17, further comprising instructions that cause the machine to read additional prefetch data from a third location on

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the storage medium, the third location preceding the first and second locations in a direction of movement of the storage medium during reading.

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21. (Amended) The computer program of claim 19, further comprising instructions that cause the host processing device to read data from a third location on the storage medium, the third location following the second location in the direction of movement of the storage medium during reading.

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25. (Amended) An apparatus for reading data from a storage medium, comprising:

a memory which stores computer instructions; and

a processor which executes the computer instructions to (i) read data on the storage medium in response to a command, the data comprising prefetch data and demand data, (ii) store the demand data in a region of memory, and (iii) issue an interrupt after the demand data has been stored in memory.

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28. (Amended) The apparatus of claim 25, wherein the demand data is read from a first location on the storage medium and the prefetch data is read from a second location on the storage medium, the first location preceding the second location in a direction of movement of the storage medium during reading.

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Please add new claims 31 to 45, as follows:

--31. A method of reading data from a storage medium, comprising:

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reading data on the storage medium in response to a command;

storing the data in a region of memory; and

consulting a database to determine when to issue an interrupt;

wherein the interrupt is issued after a predetermined portion of the data has been stored in memory.

32. The method of claim 31, wherein the database comprises instructions for storing the data and for issuing the interrupt.

33. The method of claim 31, wherein the database comprises a scatter/gather list.

34. The method of claim 31, wherein the predetermined portion of data is read from a first location on the storage medium and additional data is read from a second location on the storage medium, the first location preceding the second location in a direction of movement of the storage medium during reading.

35. The method of claim 34, further comprising reading data from a third location on the storage medium, the third location preceding the first and second locations in a direction of movement of the storage medium during reading.

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36. A machine-readable medium that stores instructions to read data from a storage medium, the instructions causing a machine to:

read data on the storage medium in response to a command;

store the data in a region of memory; and

consult a database to determine when to issue an interrupt;

wherein the interrupt is issued after a predetermined portion of the data has been stored in memory.

37. The computer program of claim 36, wherein the database comprises instructions for storing the data and for issuing the interrupt.

38. The computer program of claim 36, wherein the database comprises a scatter/gather list.

39. The computer program of claim 36, wherein the predetermined portion of the data is read from a first location on the storage medium and additional data is read from a second location on the storage medium, the first location preceding the second location in a direction of movement of the storage medium during reading.

40. The computer program of claim 39, further comprising instructions that cause the machine to read data from a third location on the storage medium, the third location

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preceding the first and second locations in a direction of movement of the storage medium during reading.

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41. An apparatus for reading data from a storage medium, comprising:

a memory which stores computer instructions; and

a processor which executes the computer instructions to (i) read data on the storage medium in response to a command, (ii) store the data in a region of memory, and (iii) consult a database to determine when to issue the interrupt;

wherein the interrupt is issued after a predetermined portion of the data has been stored in memory.

42. The apparatus of claim 41, wherein the database comprises instructions for storing the data and for issuing the interrupt.

43. The apparatus of claim 41, wherein the database comprises a scatter/gather list.

44. The apparatus of claim 41, wherein the predetermined portion of data is read from a first location on the storage medium and additional data is read from a second location on the storage medium, the first location preceding the second location in a direction of movement of the storage medium during reading.

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45. The apparatus of claim 44, wherein the processor executes instructions to read data from a third location on the storage medium, the third location preceding the first and second locations in a direction of movement of the storage medium during reading.--

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